10/56U98/ IAPS Rec'd PCT/PTO 14 DEC 2008

SEQUENCE LISTING

<110>	PROLIGO, LLC Arar, Khalil	
<120>	Fluorogenic Nucleic Acid Probes Including LNA For Methods To Detect And/Or Quantify Nucleic Acid Analytes	
<130>	PRO14PCT	
	60/482,684 2003-06-26	
<160>	15	
<170>	PatentIn version 3.2	
<210> <211> <212> <213>	1 18 DNA Artificial	
<220> <223>	Synthetic nucleic acid ligand	
<400> aggaaga	1 atgt gcctttca	18
<210> <211> <212> <213>	19	
<220> <223>	Synthetic Nucleic Acid Ligand	
<400> aaatgct	2 ttgc tagaccaat	19
<210> <211> <212> <213>	25	
<220> <223>	Synthetic Nucleic Acid Ligand	
<222>	<pre>misc_feature (11)(11) C at position 11 is derivatized with dye LC Red 640</pre>	
<400> ccacctt	3 toto caagaactat attgt	25
<210> <211>	4 22	

```
<212> DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<400> 4
                                                                     22
cgttgacctc cactcagtgt ga
<210> 5
<211> 17
<212>
      DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222> (5)..(5)
<223> C at position 5 is a locked nucleic acid
<220>
<221> misc_feature
<222> (11)..(11)
<223> C at position 11 is derivatized with dye LC Red 640
<220>
<221> misc_feature
<222> (11)..(11)
<223> C at position 11 is a locked nucleic acid
<220>
<221> misc_feature
<222>
      (15)..(15)
<223> A at position 15 is a locked nucleic acid
<400> 5
                                                                     17
ccaccttctc caagaac
<210> 6
<211> 17
<212> DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222> (4)..(4)
<223> T at position 4 is a locked nucleic acid
<220>
<221> misc_feature
<222>
      (8)..(8)
<223> C at position 8 is a locked nucleic acid
```

```
<220>
<221> misc_feature
<222>
      (12)..(12)
<223> T at position 12 is a locked nucleic acid
<400> 6
                                                                      17
acctccactc agtgtga
<210> 7
<211> 17
<212> DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222> (10)..(11)
<223> C at position 10 and 11 is a locked nucleic acid
<220>
<221> misc_feature
<222> (11)..(11)
<223> C at position 11 is derivatized with dye LC Red 640
<220>
<221> misc_feature
<222> (12)..(12)
<223> A at position 12 is a locked nucleic acid
<400> 7
                                                                      17
ccaccttctc caagaac
<210> 8
<211> 16
<212> DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc feature
<222> (7)..(9)
<223> C at positions 7 and 9 is a locked nucleic acid
<220>
<221> misc_feature
<222> (8)..(8)
<223> T at position 8 is a locked nucleic acid
<400> 8
                                                                      16
cctccactca gtgtga
```

```
<210> 9
<211> 15
<212>
      DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222>
      (5)..(5)
<223> T at position 5 is a locked nucleic acid
<220>
<221> misc feature
<222>
      (6)..(7)
<223> C at positions 6 and 7 is a locked nucleic acid
<220>
<221> misc feature
<222> (7)..(7)
<223> C at position 7 is derivatized with dye LC Red 640
<220>
<221> misc_feature
<222>
      (11)..(11)
<223> A at position 11 is a locked nucleic acid
<400> 9
                                                                       15
cttctccaag aacta
<210> 10
<211>
      16
<212>
      DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222> (1)..(1)
<223> C at position 1 is a locked nucleic acid
<220>
<221> misc feature
<222> (4)..(4)
<223> T at position 4 is a locked nucleic acid
<220>
<221> misc_feature
<222> (7)..(7)
<223> G at position 7 is a locked nucleic acid
<220>
<221> misc_feature <222> (11)..(11)
<223> G at position 11 is a locked nucleic acid
```

```
. <400> 10
                                                                       16
cactcagtgt gattcc
<210> 11
<211> 13
<212> DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222>
       (1)..(1)
<223> C at position 1 is a locked nucleic acid
<220>
<221> misc_feature
<222>
      (2)..(2)
<223> T at position 2 is a locked nucleic acid
<220>
<221> misc_feature
<222>
       (6)..(7)
<223> C at positions 6 and 7 is a locked nucleic acid
<220>
<221> misc_feature
<222> (7)..(7)
<223> C at position 7 is derivatized with dye LC Red 640
<220>
<221> misc_feature
<222>
       (10)...(10)
<223> G at position 10 is a locked nucleic acid
<400> 11
                                                                       13
cttctccaag aac
<210> 12
<211> 14
<212> DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222> (1)..(1)
<223> C at position 1 is a locked nucleic acid
<220>
<221> misc_feature
<222>
       (6)..(6)
<223> T at position 6 is a locked nucleic acid
```

```
<220>
<221> misc_feature
<222> (7)...(7) <223> G at position 7 is a locked nucleic acid
<220>
<221> misc_feature
<222> (10)..(10)
<223> A at position 10 is a locked nucleic acid
<220>
<221> misc_feature
<222> (13)..(13)
<223> C at position 13 is a locked nucleic acid
<400> 12
                                                                       14
ctcagtgtga ttcc
<210> 13
<211> 13
<212> DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222> (1)..(1)
<223> C at position 1 is a locked nucleic acid
<220>
<221> misc_feature
<222>
      (7)..(7)
<223> C at position 7 is derivatized with dye LC Red 640
<400> 13
                                                                       13
cttctccaag aac
<210> 14
<211> 14
<212> DNA
<213> Artificial
<223> Synthetic Nucleic Acid Ligand
<400> 14
                                                                       14
ctcagtgtga ttcc
<210> 15
<211> 13
<212> DNA
<213> Artificial
```

. . . .

<220>

<223> Synthetic Nucleic Acid Ligand

, , ,

<220>
<221> misc_feature
<222> (7)..(7)
<223> C at position 7 is derivatized with dye LC Red 640
<400> 15
cttctccaag aac

13

10/560987 IAPS ROCAPCT/PTO 14 DEC 2005

WO 2005/003373

PCT/US2004/019671

PRO14PCT.ST25.txt SEQUENCE LISTING

<110>	PROLIGO, LLC Arar, Khalil		
<120>	Fluorogenic Nucleic Acid Probes Including LNA For Methods To Detect And/Or Quantify Nucleic Acid Analytes		
<130>	PRO14PCT		
<150> <151>	60/482,684 2003-06-26		
<160>	15		
<170>	PatentIn version 3.2		
<210> <211> <212> <213>	1 18 DNA Artificial		
<220> <223>	Synthetic nucleic acid ligand		
<400> aggaag	1 atgt gcctttca	18	
<210> <211> <212> <213>	19		
<220> <223>	Synthetic Nucleic Acid Ligand		
<400> aaatgc	2 ttgc tagaccaat	19	
<210> <211> <212> <213>	3 25 DNA Artificial		
<220> <223>	Synthetic Nucleic Acid Ligand		
<220> <221> <222> <223>	misc_feature (11)(11) C at position 11 is derivatized with dye LC Red 640		
<400> 3 ccaccttctc caagaactat attgt 25			
<210> <211> <212> <213>	4 22 DNA Artificial		

PRO14PCT.ST25.txt

```
<220>
<223> Synthetic Nucleic Acid Ligand
<400> 4
                                                                                                   22
cgttgacctc cactcagtgt ga
<210> 5
<211> 17
<212> DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222> (5).(5)
<223> C at position 5 is a locked nucleic acid
<220>
<221> misc_feature
<222> (11)..(11)
<223> C at position 11 is derivatized with dye LC Red 640
<220>
<221> misc_feature
<222> (11)..(11)
<223> C at position 11 is a locked nucleic acid
<220>
<221> misc_feature
<222> (15)..(15)
<223> A at position 15 is a locked nucleic acid
<400> 5
                                                                                                   17
ccaccttctc caagaac
<210> 6
<211> 17
<212> DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature <222> (4)..(4)
        (4)..(4)
T at position 4 is a locked nucleic acid
<223>
<220>
<221> misc_feature
<222> (8)..(8)
<223> C at position 8 is a locked nucleic acid
<220>
<221> misc_feature <222> (12)..(12)
                                                      Page 2 '
```

WO 2005/003373 PCT/US2004/019671

PRO14PCT.ST25.txt

<223> T at position 12 is a locked nucleic acid

```
<400> 6
                                                                                                     17
acctccactc agtgtga
<210> 7
<211> 17
<212> DNA
<213> Artificial
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222> (10)..(11)
<223> C at position 10 and 11 is a locked nucleic acid
<220>
<221> misc_feature
<222> (11)..(11)
<223> C at position 11 is derivatized with dye LC Red 640
<220>
<221> misc_feature
<222> (12)..(12)
<223> A at position 12 is a locked nucleic acid
<400> 7
                                                                                                     17
ccaccttctc caagaac
<210> 8
<211> 16
<212> DNA
<213> Artificial
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222> (7)..(9)
<223> C at positions 7 and 9 is a locked nucleic acid
<220>
<221> misc_feature
<222> (8)..(8)
<223> T at position 8 is a locked nucleic acid
<400> 8
                                                                                                      16
cctccactca gtgtga
<210>
<210> 9
<211> 15
<212> DNA
<213> Artificial
<220>
```

```
PRO14PCT.ST25.txt
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222> (5)..(5)
<223> T at position 5 is a locked nucleic acid
<221> misc_feature <222> (6)..(7)
<223> C at positions 6 and 7 is a locked nucleic acid
<220>
<221> misc_feature <222> (7)..(7)
<223> C at position 7 is derivatized with dye LC Red 640
<220>
<221> misc_feature
<222> (11)..(11)
<223> A at position 11 is a locked nucleic acid
<400> 9
                                                                                          15
cttctccaag aacta
<210> 10
<211> 16
<212> DNA
<213> Artificial
<220>
<223> Synthetic Nucleic Acid Ligand
<220>
<221> misc_feature
<222> (1)..(1)
<223> C at position 1 is a locked nucleic acid
<220>
<221> misc_feature
<222> (4)..(4)
<223> T at position 4 is a locked nucleic acid
<220>
<221> misc_feature
<222> (7)..(7)
<223> G at position 7 is a locked nucleic acid
<220>
<221> misc_feature
<222> (11)..(11)
<223> G at position 11 is a locked nucleic acid
<400> 10
                                                                                          16
cactcagtgt gattcc
<210> 11
<211> 13
<212> DNA
```

13

PRO14PCT.ST25.txt <213> Artificial <220> <223> Synthetic Nucleic Acid Ligand <220> <221> misc_feature <222> (1)..(1)<223> Cat position 1 is a locked nucleic acid <220> <221> <222> misc_feature (2)..(2) T at position 2 is a locked nucleic acid <223> <220> <221> misc_feature <222> (6)..(7)C at positions 6 and 7 is a locked nucleic acid <223> <220> <221> <222> misc_feature (7)..(7) C at position 7 is derivatized with dye LC Red 640 <220> <221> misc_feature <222> (10)..(10) <223> G at position 10 is a locked nucleic acid misc_feature <400> 11 cttctccaag aac <210> 12 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic Nucleic Acid Ligand <220> <221> <222> <223> misc_feature (1)..(1) C at position 1 is a locked nucleic acid <220> <221> <222> misc_feature (6)..(6)T at position 6 is a locked nucleic acid <220> misc_feature <221> <222> (7)..(7) <223> G at position 7 is a locked nucleic acid

<220>

<221> <222>

misc_feature (10)..(10)

<223> A at position 10 is a locked nucleic acid

PRO14PCT.ST25.txt

<220> <221> <222> <223>	misc_feature (13)(13) C at position 13 is a locked nucleic acid		
<400> ctcagtq	<400> 12 ctcagtgtga ttcc		
<210> <211> <212> <213>	13 13 DNA Artificial		
<220> <223>	Synthetic Nucleic Acid Ligand		
<220> <221> <222> <223>	misc_feature (1)(1) C at position 1 is a locked nucleic acid		
<220> <221> <222> <223>	misc_feature (7)(7) C at position 7 is derivatized with dye LC Red 640		
<400> cttctc	<400> 13 cttctccaag aac		
<210> <211> <212> <213>	14 14 DNA Artificial		
<220> <223>	Synthetic Nucleic Acid Ligand		
<400> ctcagt	14 gtga ttcc	14	
<210> <211> <212> <213>	15 13 DNA Artificial		
<220> <223>	Synthetic Nucleic Acid Ligand		
<220> <221> <222> <223>	<pre>misc_feature (7)(7) C at position 7 is derivatized with dye LC Red 640</pre>		
<400> cttctc	15 caag aac	13	